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KATTEN MUCHIN ROSENMAN LLP

525 West Monroe Street
Chicago, IL 60661-3693

312.902.5200 office 312.902.1061 fax

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|---|---|-------------------------------------|---------------------|
| Facsimile To Mail Stop Missing Parts - Commissioner for Patents | Company USPTO | Fax Number (571) 273-8300 | Phone Number |
| Date September 14, 2005 | Client/Matter Number 211843-00032 | | |
| From John S. Paniaguas | Attorney Number 32347 | | |
| Phone 312.902.5312 | Fax 312.577.4532 | | |

Total number of pages, including cover letter: pages
If you do not receive all of the pages, please call: 312.902.5312

17 pages

Comments

RE: Patent Application No.: 10/519,699
 Filing Date: December 23, 2004
 Inventor: Horsky, et al.
 Title: An Ion Implantation Device and a Method of Semiconductor Manufacturing by the Implantation of Boron Hydride Cluster Ions
 Confirmation No.: 6928
 Please file the attached:
 Transmittal Form (1 p.)
 Fee Transmittal Form (1 p.)
 Copy of Notification of Missing Requirements (2 pp.)
 Response to Notification of Missing Requirements (2 pp.) in triplicate.
 Executed Declaration (2 pp.)
 Correction of Entry Status and Payment of Fee Deficiency (2 pp.) in duplicate.

Certificate of Transmission

I hereby certify that this correspondence is being facsimile transmitted to the U.S. Patent and Trademark Office ((571) 273-8300) on September 14, 2005.

Janelle A. Wiggins
 (Typed or printed name of person signing this certificate)
Janelle A. Wiggins
 Signature

For Messenger Department Use Only

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Date _____ Time _____
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Doc # CH01 (211843-00032) 50306229v1:09/14/2005/Time: 14:14

PTO/SB/21 09-04
Approved for use through 09/1/2006. Call 800-595-9091
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Under the Trademark Protection Act of 1993, no person shall knowingly deposit in the United States Patent and Trademark Office a trademark or service mark that is identical to, or confusingly similar to, a trademark or service mark already registered.

| | | |
|---|------------------------|-------------------|
| TRANSMITTAL FORM (To be used in completing other pages) | Application Number | 10515,000 |
| | Filing Date | December 23, 2004 |
| | Firm Name/Inventor | Muchin, et al. |
| | Att. Link | Unassigned |
| | Examiner Name | Unassigned |
| | Agency District Number | 21543-0000 |

Total Number of Pages in This Submission: _____

| ENCLOSURES (Check all that apply) | | |
|---|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Drawings | <input type="checkbox"/> After Allowance Communication to TC |
| <input type="checkbox"/> Fee Affidavit | <input type="checkbox"/> Licensed-related Papers | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interventions |
| <input type="checkbox"/> Affidavit of Inventorship | <input type="checkbox"/> Petition | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> Affidavit of Inventorship | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Extension of Time Request | <input type="checkbox"/> Power of Attorney, Revision | <input type="checkbox"/> Status Letter |
| <input type="checkbox"/> Express-Advertisement Request | <input type="checkbox"/> Change of Correspondence Address | <input type="checkbox"/> Other Enclosure(s) (please identify below): |
| <input type="checkbox"/> Information Disclosure Statement | <input type="checkbox"/> Terminal Disclaimer | <input type="checkbox"/> Examining Declaration |
| <input type="checkbox"/> Certified Copy of Priority Document(s) | <input type="checkbox"/> Request for Refund | <input type="checkbox"/> Correction of Entry Error and Payment of Fee Deficiency |
| <input type="checkbox"/> Reply to Missing Part/Incomplete Application | <input type="checkbox"/> CO Number of CO(s) | <input type="checkbox"/> Copy of Notification of Missing - |
| <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> Reproduction of Missing ... |
| <input type="checkbox"/> Remarks: _____ | | |
| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | | |
| Firm Name | Katten Muchin Rosenman LLP | |
| Signature | <i>[Handwritten Signature]</i> | |
| Printed name | John A. Puciguet | |
| Date | 9-14-05 | Reg. No. 31,501 |

| CERTIFICATE OF TRANSMISSION MAILING | |
|---|--------------------------------|
| I hereby certify that this correspondence is being furnished transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage on first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: | |
| Signature | <i>[Handwritten Signature]</i> |
| Type of Filing Name | John A. Puciguet |
| Date | 9-14-05 |

This certificate of transmittal is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to be (and by the USPTO is provided) in accordance with the provisions of 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. The certificate is intended to be used in connection with the filing of a patent application, and is not to be used for any other purpose. Any correspondence on the certificate of transmittal is required to be filed under the provisions of 37 CFR 1.5. The certificate is not to be used for any other purpose. U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. Call 800-595-9091 for more information. Send this completed form to the appropriate USPTO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you are not submitting or completing the form, call 1-800-PTO-6789 and select option 2.

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Mailing Office: U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1468, Alexandria, VA 22304-4468

Check on 10/09/2004
Fees payable to the Commissioner of Patents and Trademarks, P.O. Box 1468, Alexandria, VA 22304-4468

FEE TRANSMITTAL For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (3) \$1,440.00

Method of Payment (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ Note ☐ Other (specify amount):

☒ Deposit in cash. Deposit Account Number: 50-12714. Deposit Agency Name: KATTEN MUCHIN
For fee of one-dollar deposit account, the Director is hereby authorized to credit all fees applied.

☒ Charge fee(s) indicated below

☒ Charge any additional fees or underpayments of fees

☐ Charge fee(s) indicated below, except for the filing fee

☒ Credit any overpayments

Additional information on this form may be found on the USPTO website. Credit card information should not be included on this form. Provide credit card information only on the USPTO website.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

| | FILING FEES | | SEARCH FEES | | EXAMINATION FEES | | Fees Paid (3) |
|-----------------|-------------|---------------------------|-------------|---------------------------|------------------|---------------------------|---------------|
| | Fee (3) | Small Entity Discount (4) | Fee (3) | Small Entity Discount (4) | Fee (3) | Small Entity Discount (4) | |
| Application fee | 300 | 150 | 500 | 250 | 200 | 100 | |
| Utility | 200 | 100 | 100 | 50 | 130 | 65 | |
| Design | 200 | 100 | 500 | 150 | 160 | 80 | |
| Reissue | 300 | 150 | 500 | 250 | 600 | 300 | |
| Provisional | 200 | 100 | 0 | 0 | 0 | 0 | |

2. EXCESS CLAIM FEES

Fee (3) **Small Entity Discount (4)**

Each claim over 20 (including Reissues) 50 25

Each independent claim over 3 (including Reissues) 200 100

Multiple dependent claims 360 180

Total Claims: **Excess Claims** **Fee (3)** **Fee Paid (3)**

100 or more 100 or more 0 0

100 or more 100 or more 0 0

100 or more 100 or more 0 0

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (including electronically filed sequences or computer listings under 37 CFR 1.52(a)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(C) and 37 CFR 1.16(g).

Total Sheets: **Excess Sheets** **Number of each additional 50 sheets or fraction thereof** **Fee (3)** **Fee Paid (3)**

100 or more 100 or more 0 0

4. OTHER FEES (3)

Non-English Specification, \$130 fee (no small entity discount) **Fee Paid (3)**

Other (e.g., late filing surcharge, payment of claims) **Fee Paid (3)**

TOTAL **\$1,440**

Signature of: **John S. Muchin** **Registration No. 51,051** **Telephone (301) 507-5200**

Name (Print Type): **John S. Muchin** **Date** **9-14-05**

This document is required by 37 CFR 1.435. The document is required to be signed by the person who is to be filed by the USPTO in accordance with 37 CFR 1.435. The document is required to be signed by the person who is to be filed by the USPTO in accordance with 37 CFR 1.435. The document is required to be signed by the person who is to be filed by the USPTO in accordance with 37 CFR 1.435.

DO NOT SEND FEES ON COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1468, Alexandria, VA 22304-4468.

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Attorney Docket No. 211843-00032

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SEP 14 2005

| | |
|--|---|
| Applicants: Horsky, et al. | CERTIFICATION OF TRANSMISSION |
| Application No.: 10/519,699 | I hereby that this correspondence is being facsimile transmitted ((571) 273-8300) to the United States Patent and Trademark Office on |
| Filing Date: December 23, 2004 | 9-14-05 |
| Title: An Ion Implantation Device and a Method of Semiconductor Manufacturing by the Implantation of Boron Hydride Cluster Ions | Date |
| Group Art Unit: Unassigned | <i>Janelle A. Wiggins</i> |
| Examiner: Unassigned | Signature |
| Customer No.: 27160 | <i>Janelle A. Wiggins</i> |
| Confirmation No.: 6928 | Printed Name of Person Signing Certificate |

Response to Notification of Missing Requirements Under 35 U.S.C. 371

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Notification of Missing Requirements dated July 14, 2005 enclosed are:


1. (X) A copy of the Notification of Missing Requirements. (Required)
2. (X) An executed Declaration for Patent Application.
3. () Power of Attorney by Assignee of the Entire Interest along with Certificate Under 37 C.F.R. § 3.73(b).
4. () Revised set of formal drawings.
5. () A check in the amount of \$_____ to cover the filing fee (small entity) and late oath or declaration surcharge is enclosed.
6. (X) The Commissioner is hereby authorized to charge \$1,440.00 plus any additional fees which may be required in this application under 37 C.F.R. §§1.16-1.17

Attorney Docket No. 211843-00032

during its entire pendency, or credit any overpayment, to Deposit Account No. 50-1214. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1214. This sheet is filed in triplicate.

7. (X) Correction of Entity Status and Payment of Fee Deficiency.
8. () Assignment along with Assignment Recordation Form Cover Sheet.
9. () A check in the amount of \$ to cover the filing fee for Assignment recordation is enclosed.

9-14-05
(Date)


John S. Paniagua
Registration No. 31,051

KATTEN MUCHIN ROSENMAN LLP
525 West Monroe Street
Chicago, Illinois 60661-3693
Telephone: (312) 902-5200
Facsimile: (312) 902-1061

Doc # C1001 (211843-00032) 5010021061.dmr/09/14/2005/Time: 14:23

Attorney Pocket No. 211843-00032

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SEP 14 2005

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| Applicants: Horsky, et al. | CERTIFICATION OF TRANSMISSION I hereby that this correspondence is being facsimile transmitted ((571) 273-8300) to the United States Patent and Trademark Office on 9-14-05 Date <i>Janelle A. Wiggins</i> Signature Janelle A. Wiggins Printed Name of Person Signing Certificate |
| Application No.: 10/519,699 | |
| Filing Date: December 23, 2004 | |
| Title: An Ion Implantation Device and a Method of Semiconductor Manufacturing by the Implantation of Boron Hydride Cluster Ions | |
| Group Art Unit: Unassigned | |
| Examiner: Unassigned | |
| Customer No.: 27160 | |
| Confirmation No.: 6928 | |

Response to Notification of Missing Requirements Under 35 U.S.C. 371

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Attorney Docket No. 211843-00032

during its entire pendency, or credit any overpayment, to Deposit Account No. 50-1214. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, misigned, post dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1214. This sheet is filed in triplicate.

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9-14-05
(Date)


John S. Panaguan
Registration No. 31,051

KATTEN MUCHIN ROSENMAN LLP
525 West Monroe Street
Chicago, Illinois 60661-3693
Telephone: (312) 902-5200
Facsimile: (312) 902-1061

Page 7 of 17 (211843-00032) 09/14/2005 14:22

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| Applicants: Horsky, et al. | CERTIFICATION OF TRANSMISSION I hereby that this correspondence is being facsimile transmitted ((571) 273-8300) to the United States Patent and Trademark Office on 9-14-05 Date <i>Janelle A. Wiggins</i> Signature <i>Janelle A. Wiggins</i> Printed Name of Person Signing Certificate |
| Application No.: 10/519,699 | |
| Filing Date: December 23, 2004 | |
| Title: An Ion Implantation Device and a Method of Semiconductor Manufacturing by the Implantation of Boron Hydride Cluster Ions | |
| Group Art Unit: Unassigned | |
| Examiner: Unassigned | |
| Customer No.: 27160 | |
| Confirmation No.: 6928 | |

Response to Notification of Missing Requirements Under 35 U.S.C. 371

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
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9-14-05
(Date)


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Registration No. 31,051

KATTEN MUCHIN ROSENMAN LLP
525 West Monroe Street
Chicago, Illinois 60661-3693
Telephone: (312) 902-5200
Facsimile: (312) 902-1061

Doc # 13901 (211843-00032) 09/14/2005 14:22

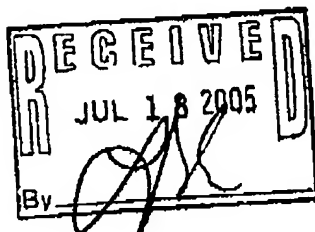


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| | | |
|-----------------------------|-----------------------|------------------|
| U.S. APPLICATION NUMBER NO. | FIRST NAMED APPLICANT | ATTY. DOCKET NO. |
| 10/519,699 | Horsky | 211843-00032 |

John S Paniaguas
Katten Muchin Zavis Roseman
525 West Monroe
Chicago, IL 60661



| | |
|------------------------------|---------------|
| INTERNATIONAL APPLICATION NO | |
| PCT/US03/20197 | |
| LA FILING DATE | PRIORITY DATE |
| 06/26/2003 | 04/18/2003 |

CONFIRMATION NO. 6928

371 FORMALITIES LETTER



Date Mailed: 07/14/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 12/23/2004
- Copy of the International Search Report filed on 12/23/2004
- Preliminary Amendments filed on 12/23/2004
- Small Entity Statement filed on 12/23/2004
- U.S. Basic National Fees filed on 12/23/2004

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the international application number and international filing date.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

DEBORAH D WILLIAMS

Telephone: (703) 308-9140 EXT 205

PART 1 - ATTORNEY/APPLICANT COPY

| U.S. APPLICATION NUMBER NO. | INTERNATIONAL APPLICATION NO. | ATTY. DOCKET NO. |
|-----------------------------|-------------------------------|------------------|
| 10/519,699 | PCT/US03/20197 | 211843-00032 |

FORM PCT/DO/EO/805 (371 Formalities Notice)

PATENT
Attorney Docket No. 211843-00032

IN THE U.S. PATENT AND TRADEMARK OFFICE

Application No.: 10/519,699

Filing Date: December 23, 2004

Art Unit: Not yet received.

Confirmation No.: 6928

Inventor(s): Horsky

Title: An Ion Implantation Device and a Method of Semiconductor Manufacturing
by the Implantation of Boron Hydride Cluster Ions

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CORRECTION OF ENTITY STATUS AND PAYMENT OF FEE DEFICIENCY

Sir:

This communication serves to notify the U.S. Patent and Trademark Office of a correction to the entity status of the instant application and to pay the balance of deficient fees.

On the date of filing, December 23, 2004, it was believed in good faith that the application qualified for small entity fees. However, it is now apparent that small entity status was claimed (and small entity fees were paid) in error.

In order to correct the error, the deficiency owed is itemized in accordance with 37 CFR § 1.28(c)(2)(ii) as follows:

Serial No. 10/519,699

Page 2

| TYPE OF FEE EXTRANEOUSLY PAID AS A SMALL ENTITY | CURRENT FEE AMOUNT FOR A NON-SMALL ENTITY | SMALL ENTITY FEE ACTUALLY PAID/ DATE OF PAYMENT | DEFICIENCY OWED AMOUNT |
|---|---|---|------------------------------|
| Basic National Fee | \$300 | \$150 December 21, 2004 | \$150 |
| Examination Fee | \$200 | \$100 December 23, 2004 | \$100 |
| Search Fee | \$500 | \$250 December 23, 2004 | \$250 |
| Late entry declaration surcharge | \$130 | \$65 December 23, 2004 | \$65 |
| Total claims | \$930 | \$475 December 23, 2004 | \$475 |
| Independent claims | \$400 | \$200 December 23, 2004 | \$200 |
| TOTAL | | | \$1,440.00 |

The Commissioner is hereby authorized to charge \$1,440.00 for the payment of the deficiencies in Deposit Account No. 50-1214. The Commissioner is also hereby authorized to charge any additional deficiencies in the payment of the fees or credit any overpayment to Deposit Account No. 50-1214. A duplicate copy of this notification is enclosed.

Date: 9-14-05

By:

John S. Paniagua
John S. Paniagua
Attorney for Applicant(s)
Reg. No. 31,051

Doc # 67001 (2) 1043-08032, 502776811, 5041402027, 5041402027, 5041402027

PATENT
Attorney Docket No. 211843-00032

IN THE U.S. PATENT AND TRADEMARK OFFICE

Application No.: 10/519,699
Filing Date: December 23, 2004
Art Unit: Not yet received.
Confirmation No.: 6928
Inventor(s): Horsky
Title: An Ion Implantation Device and a Method of Semiconductor Manufacturing
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|--|---|---|------------------------------|
| Basic National Fee | \$300 | \$130 December 23, 2004 | \$150 |
| Examination Fee | \$200 | \$100 December 23, 2004 | \$100 |
| Search Fee | \$500 | \$250 December 23, 2004 | \$250 |
| Law oath/declaration oathmaker | \$130 | \$65 December 23, 2004 | \$65 |
| Total claims | \$950 | \$475 December 23, 2004 | \$475 |
| Independent claims | \$600 | \$400 December 23, 2004 | \$400 |
| TOTAL | | | \$1,440.00 |

The Commissioner is hereby authorized to charge \$1,440.00 for the payment of the deficiencies to Deposit Account No. 50-1214. The Commissioner is also hereby authorized to charge any additional deficiencies in the payment of the fees or credit any overpayment to Deposit Account No. 50-1214. A duplicate copy of this notification is enclosed.

Date: 9-14-05By: John S. Panning

John S. Panning
Attorney for Applicant(s)
Reg. No. 31,051

Doc # 3129021061 (2) 14-09-2005 03:31pm 13129021061